

Figure 1 Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

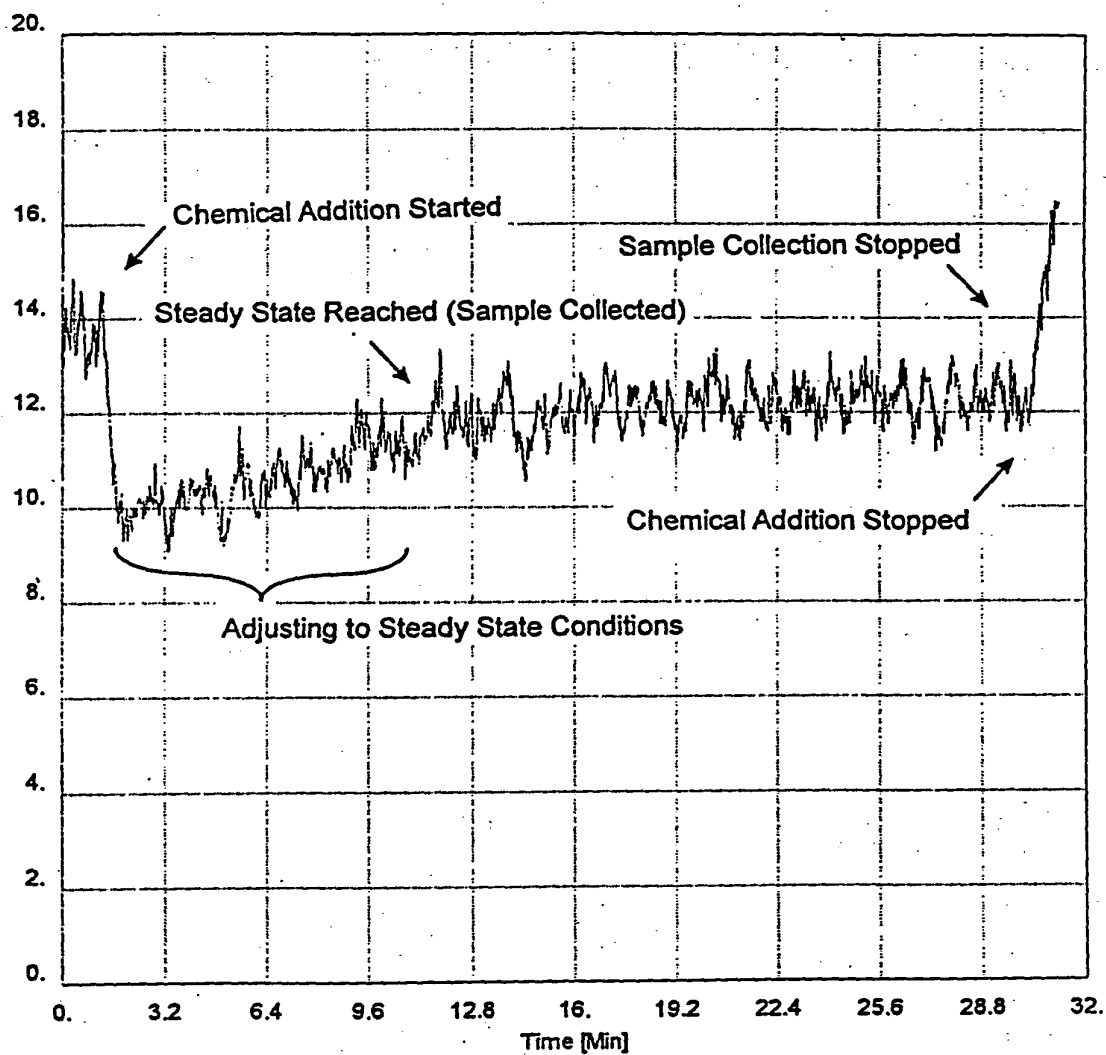
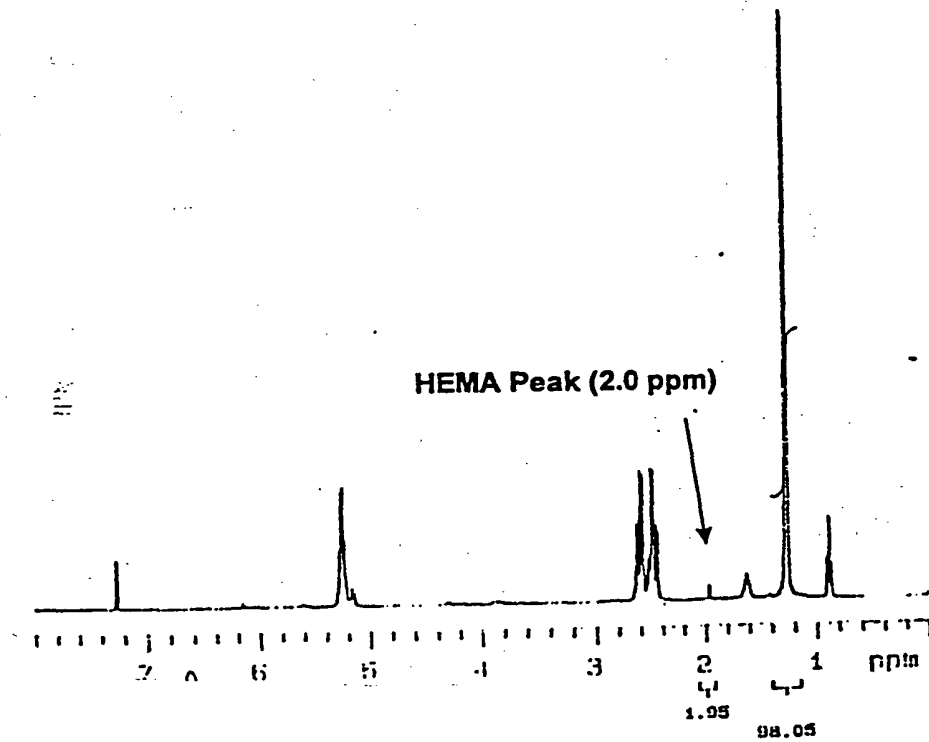
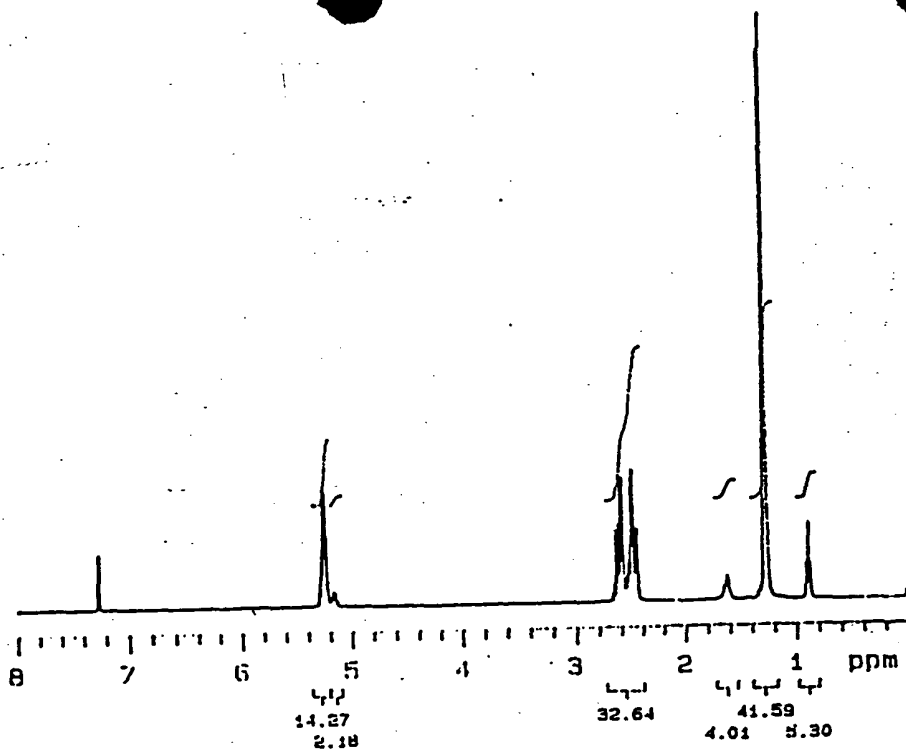


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV



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Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted  
PHBV

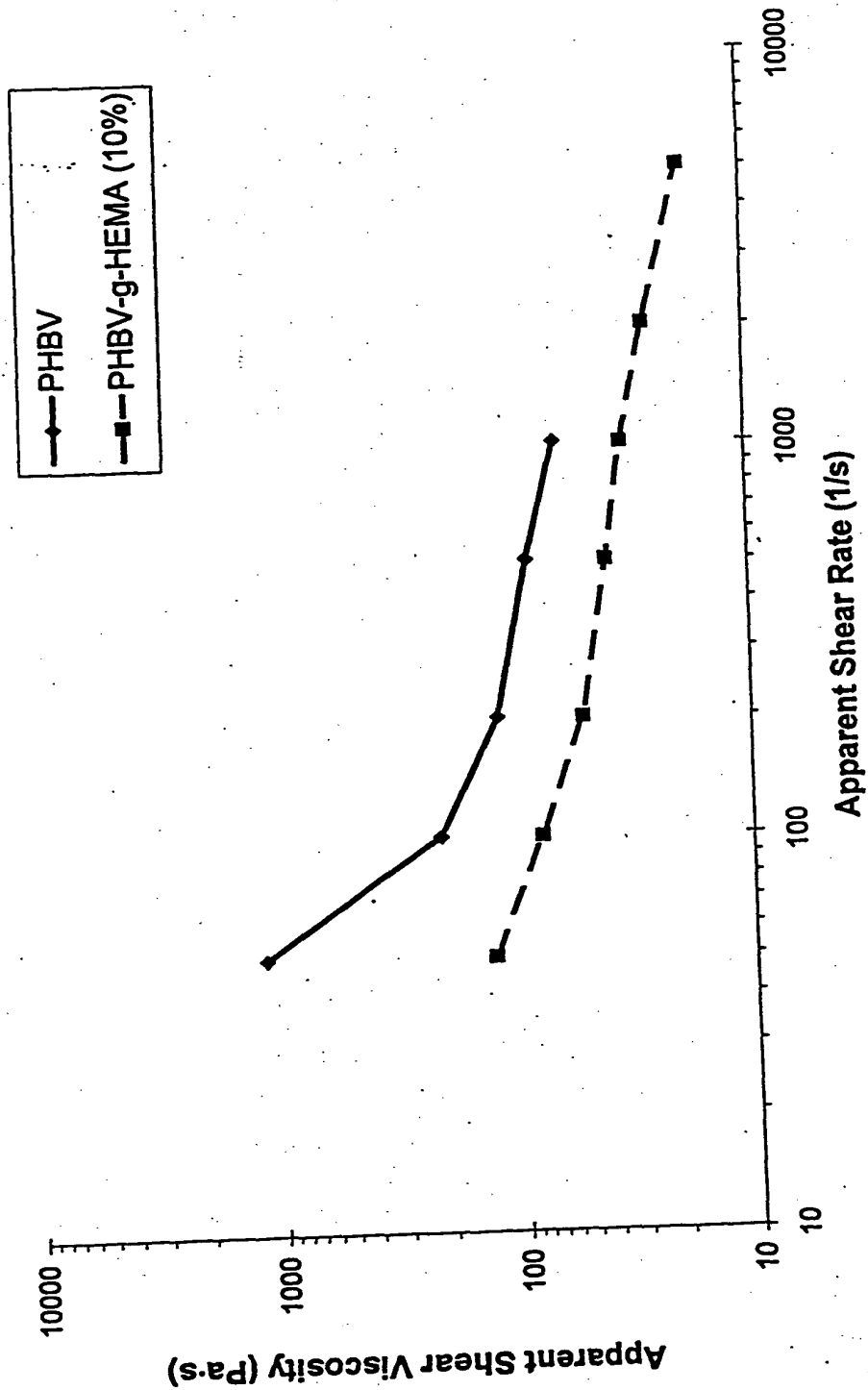
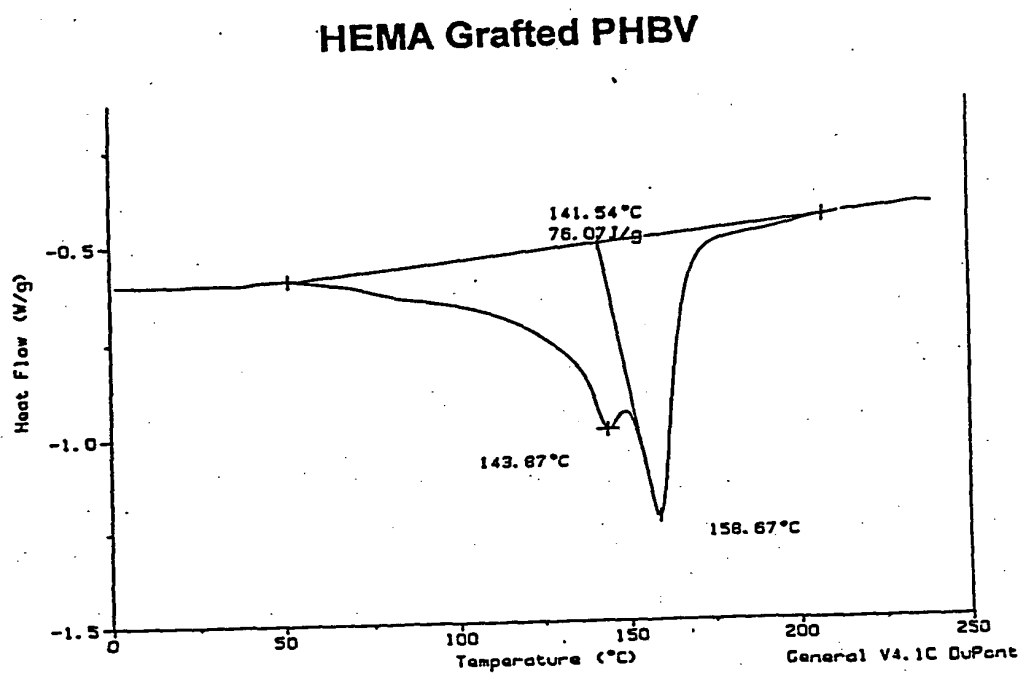
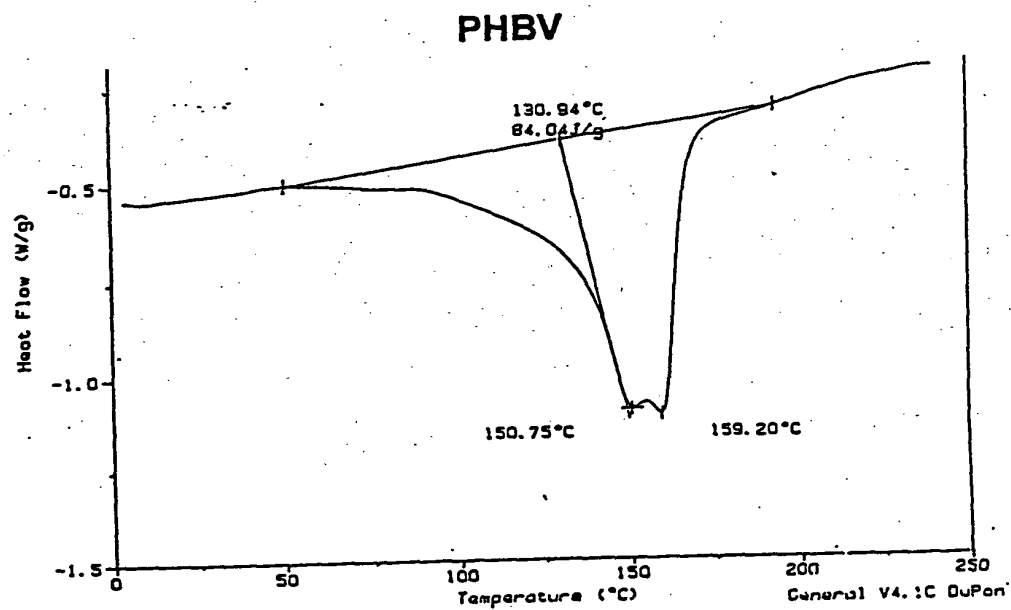


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



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Figure Torque vs. Time Chart for Reactive Extrusion of  
PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m-g

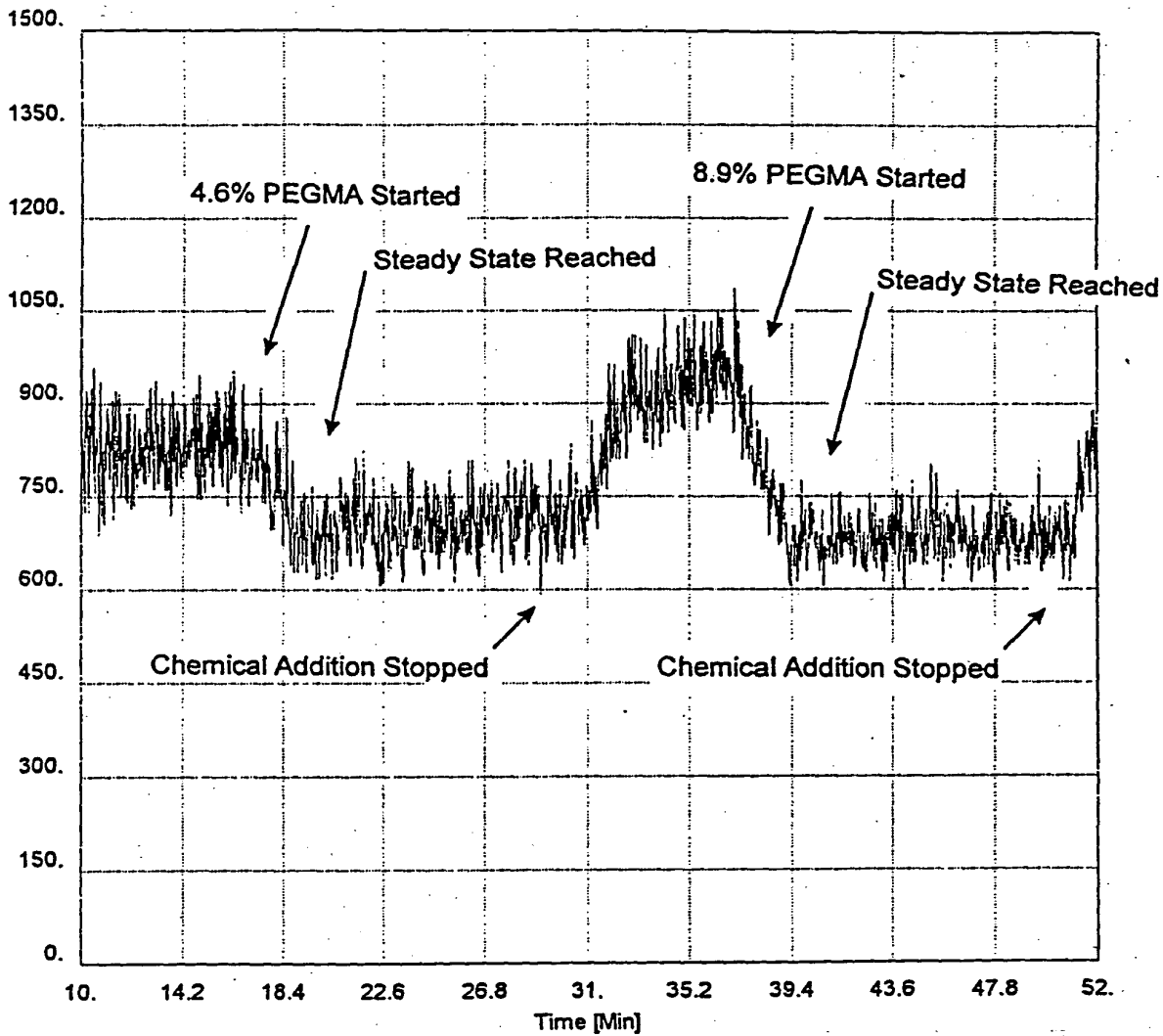
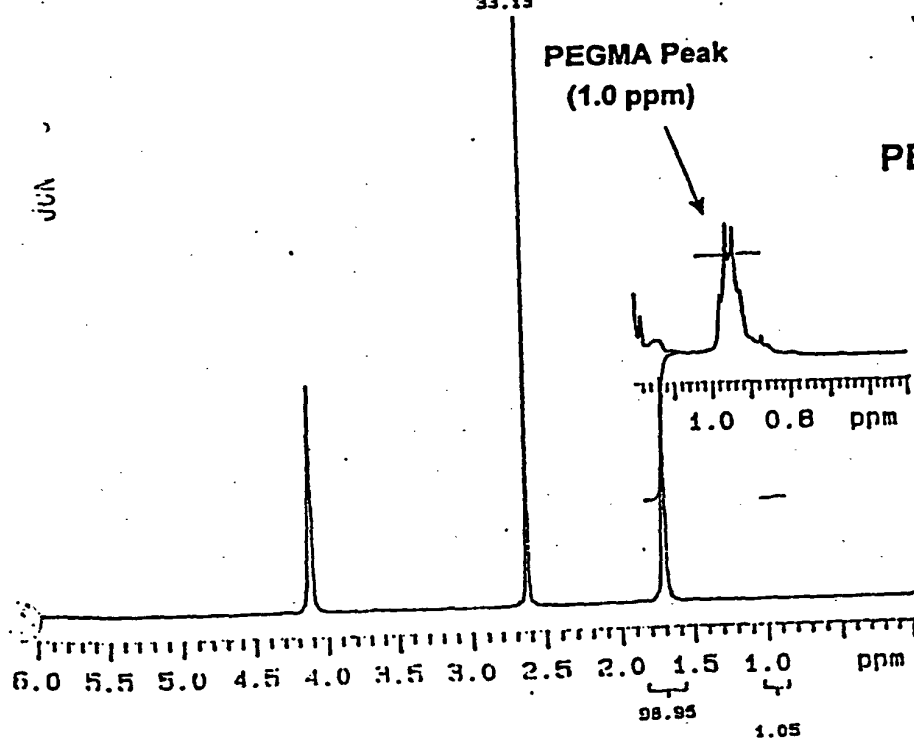
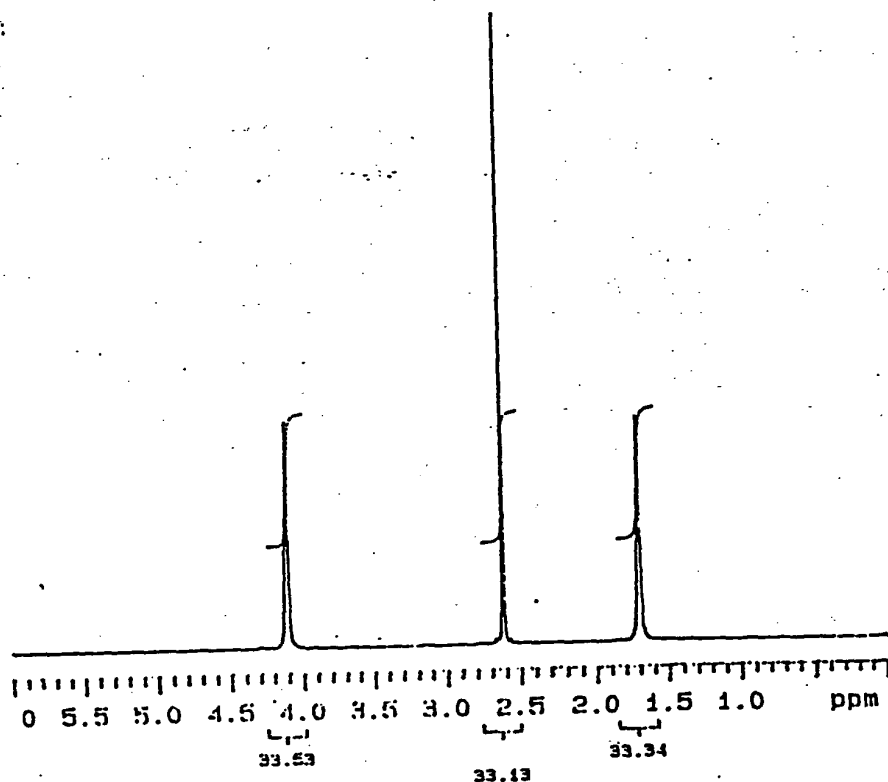
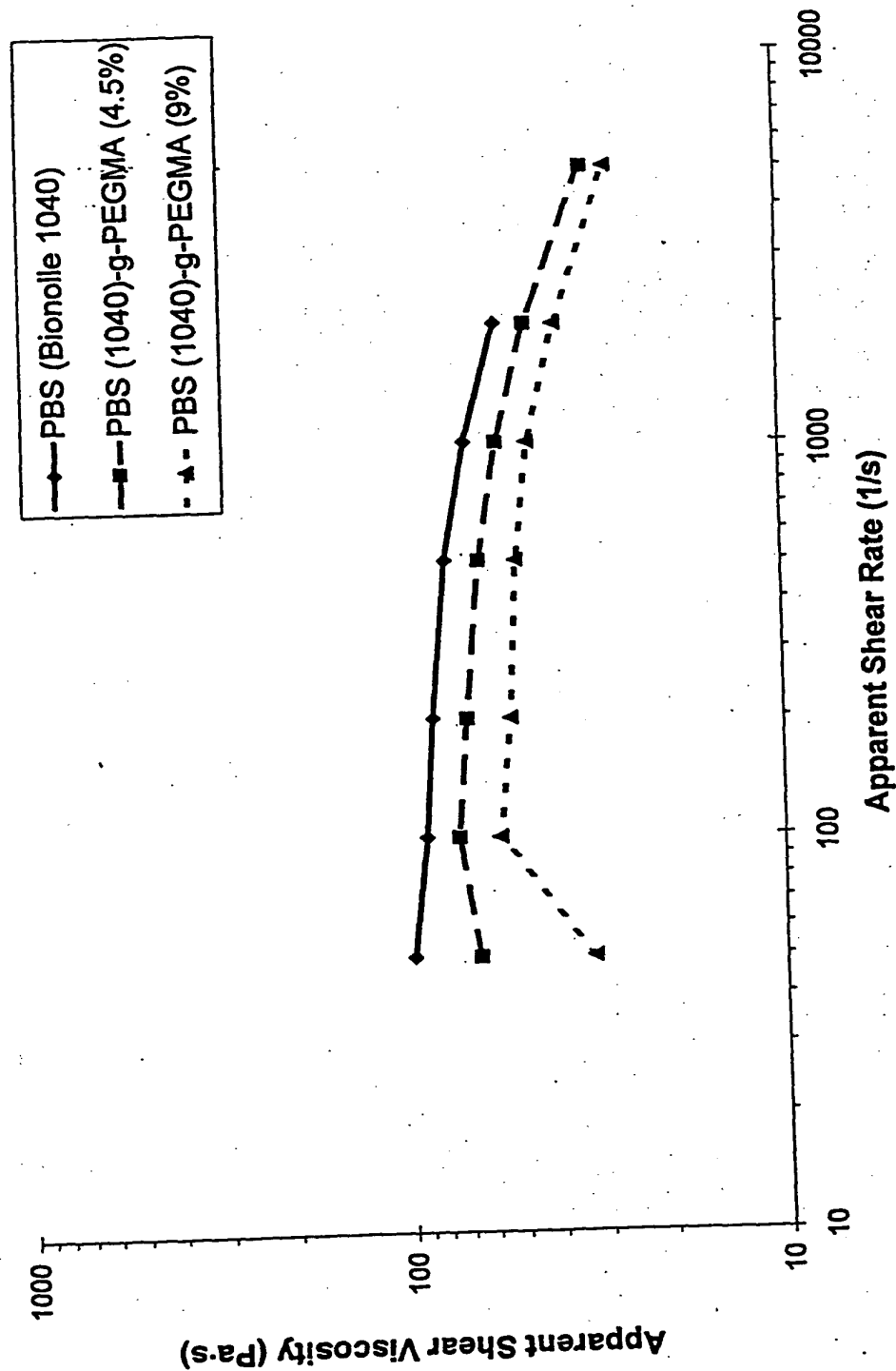


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040



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Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)



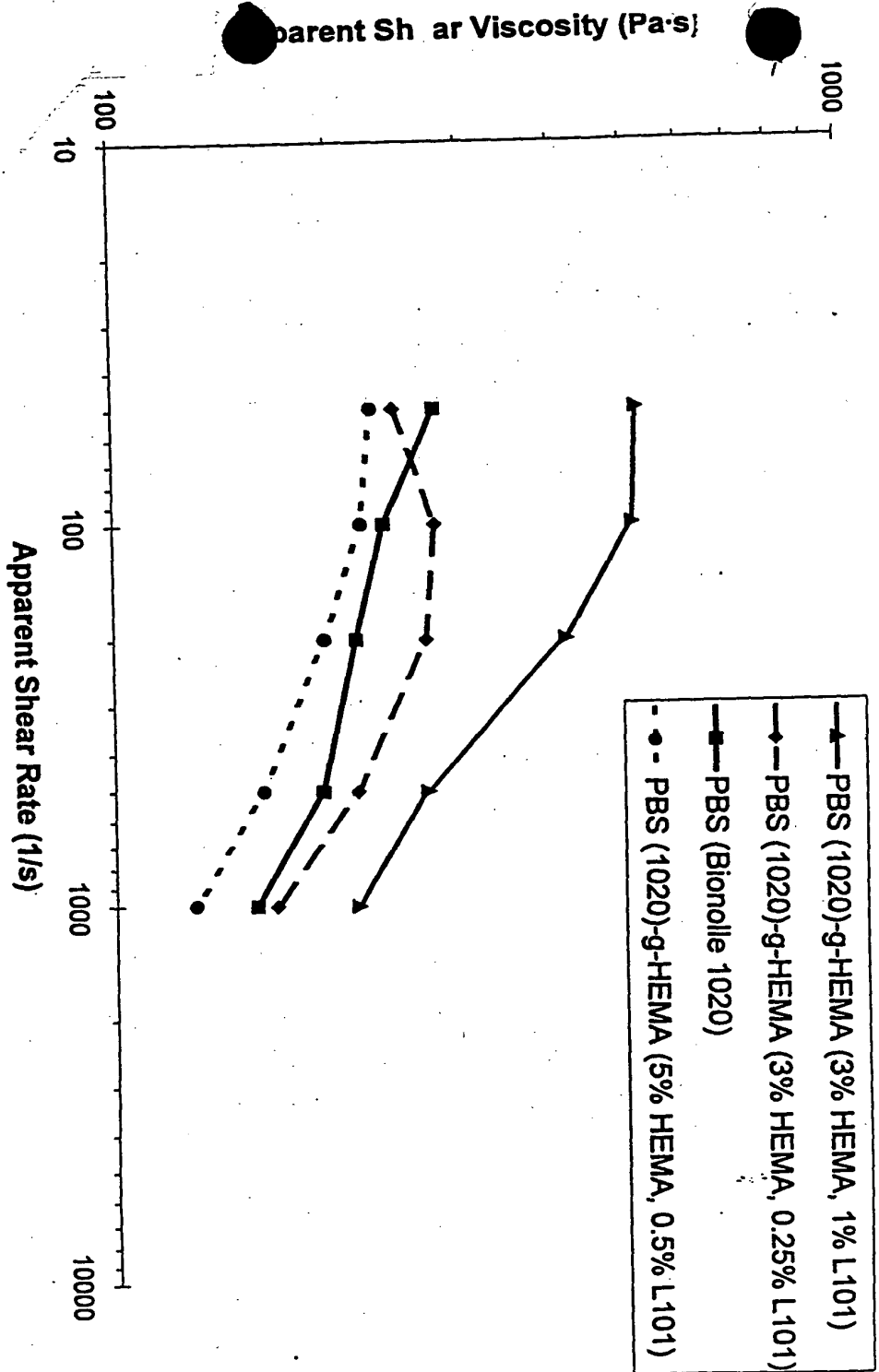
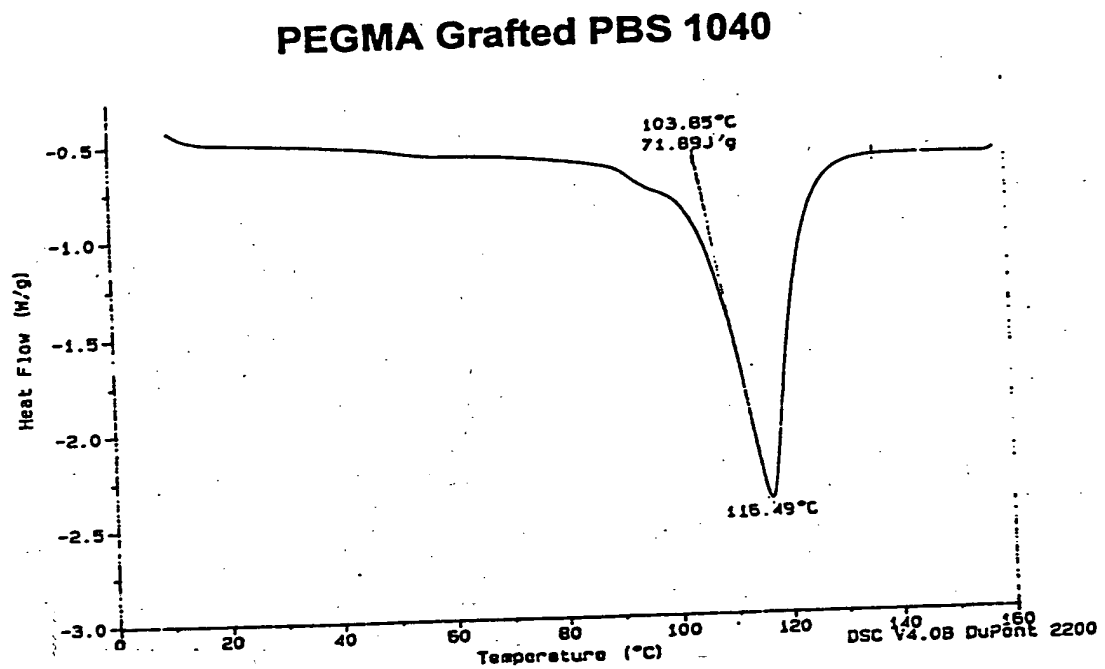
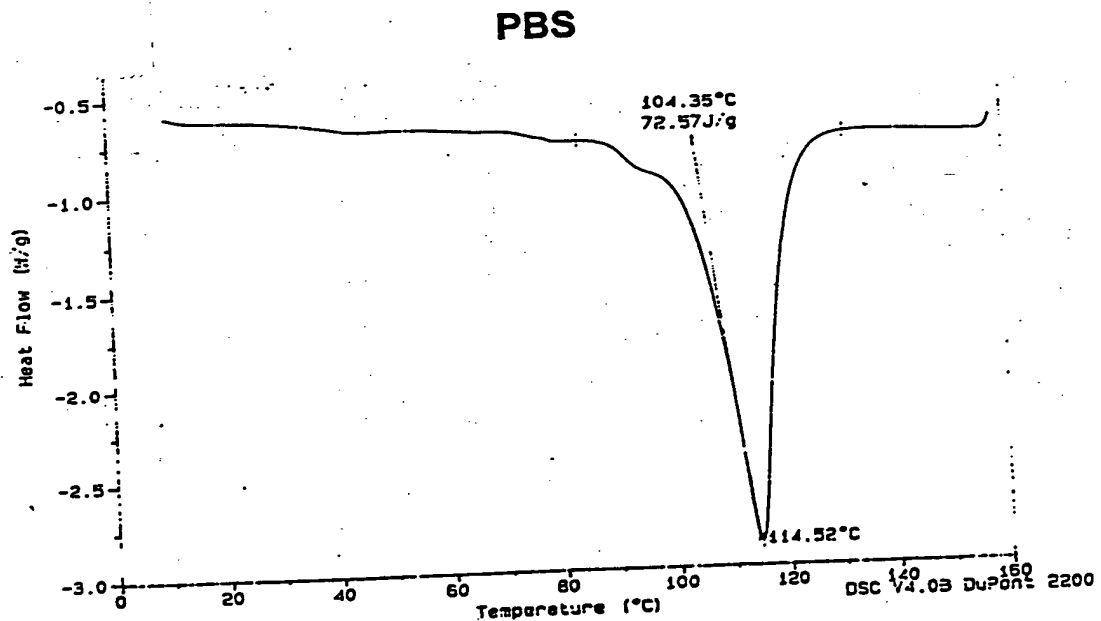


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

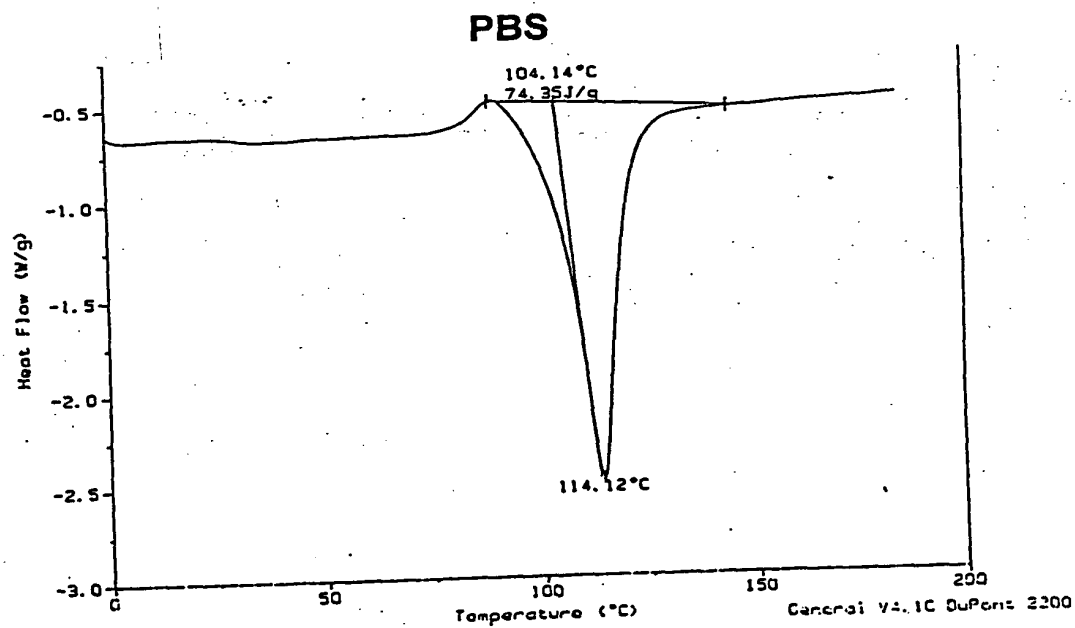
09753077 .122900

Figure 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040

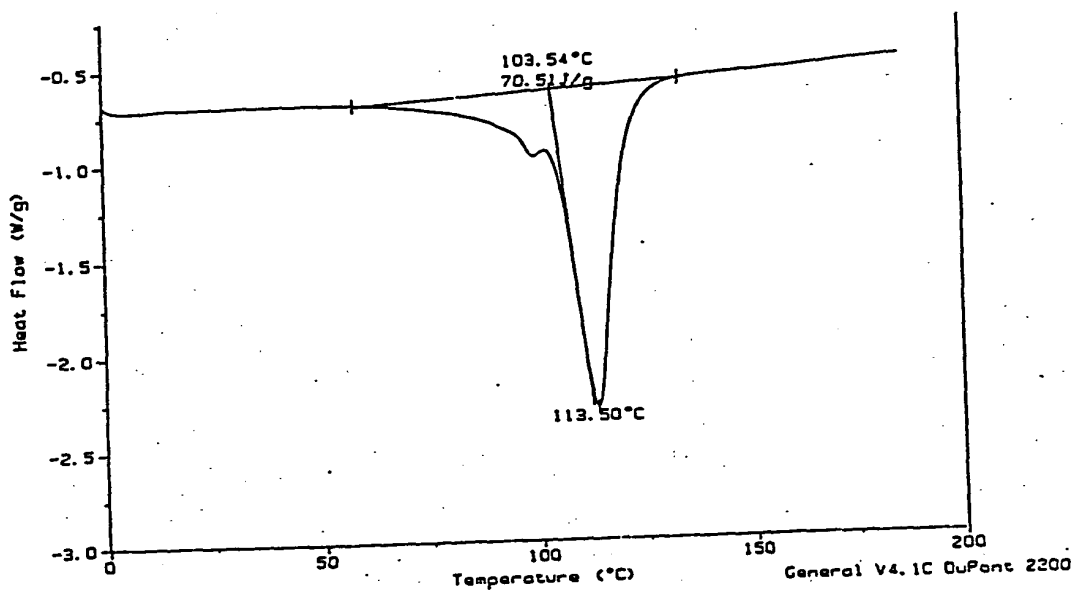


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Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020



**HEMA Grafted PBS 1020**



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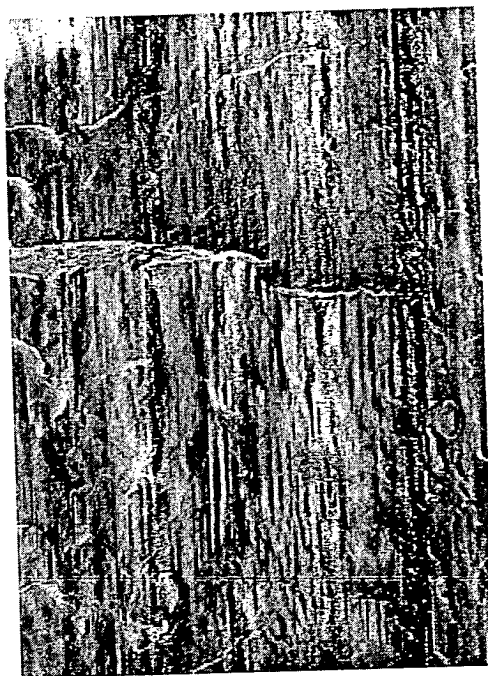
Figure 11



10 µm

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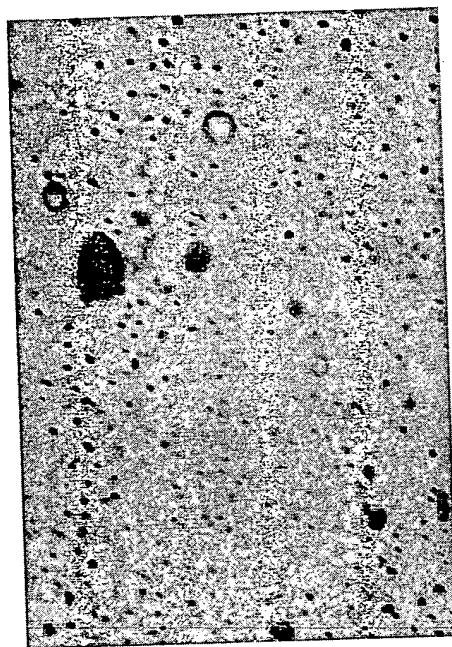
Figure 12



— 10 µm

00622T" 440ES260

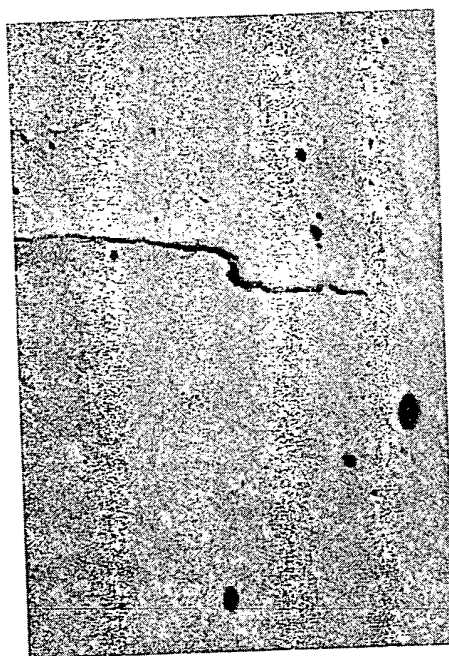
Figure 13



— 10 µm

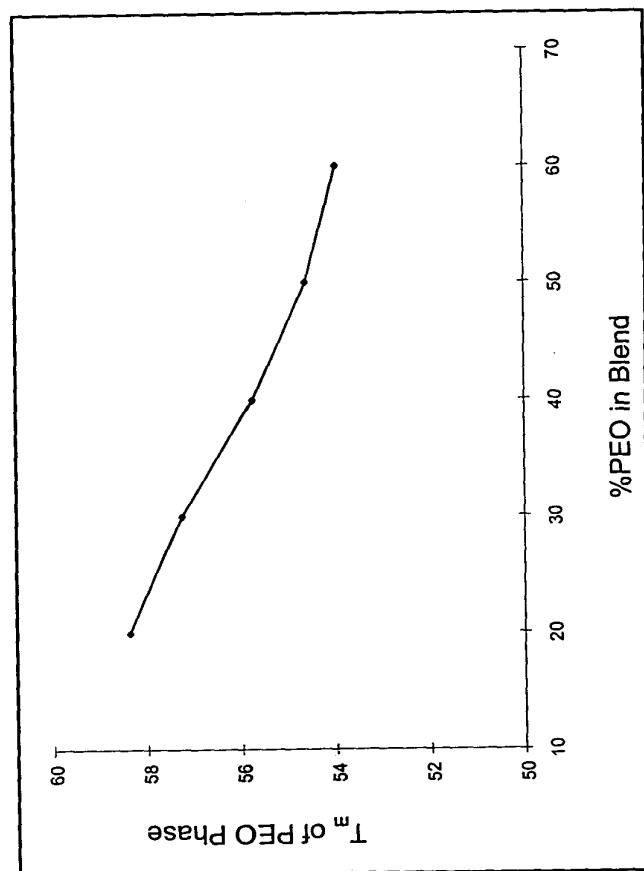
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Figure 14



— 10  $\mu\text{m}$

Figure 15  
 $T_m$  of PEO Phase of Reactive Blends



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Figure 16

$\Delta T_m = T_m$  (PEO Phase of Physical Blends) -  $T_m$  (Reactive Blends)

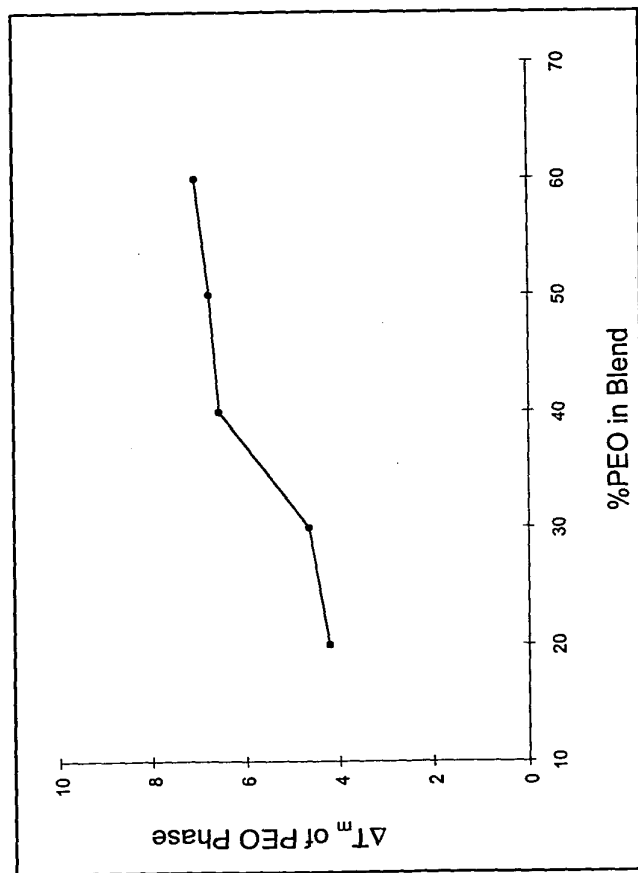
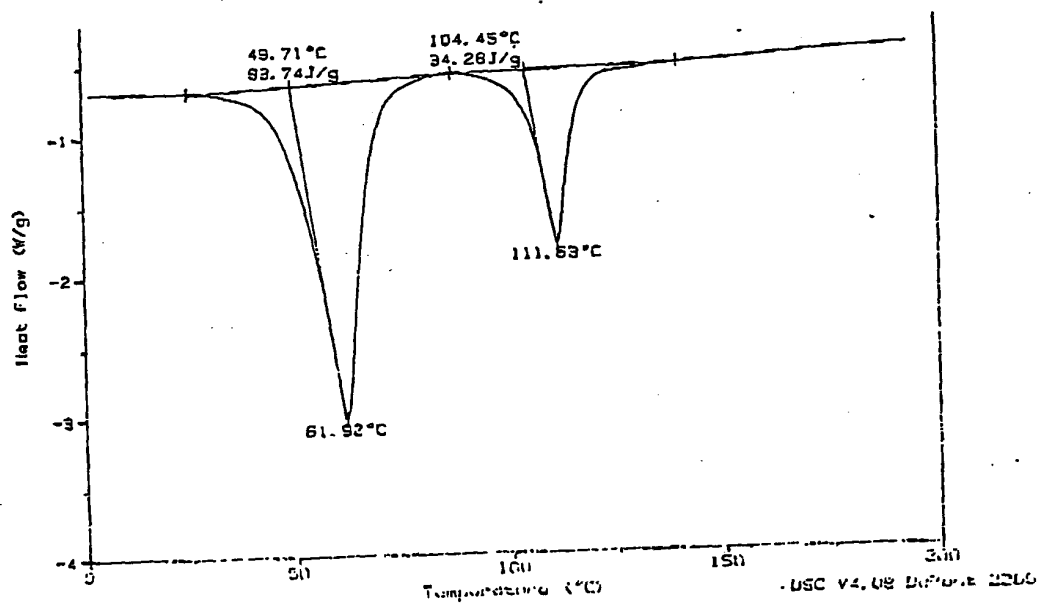
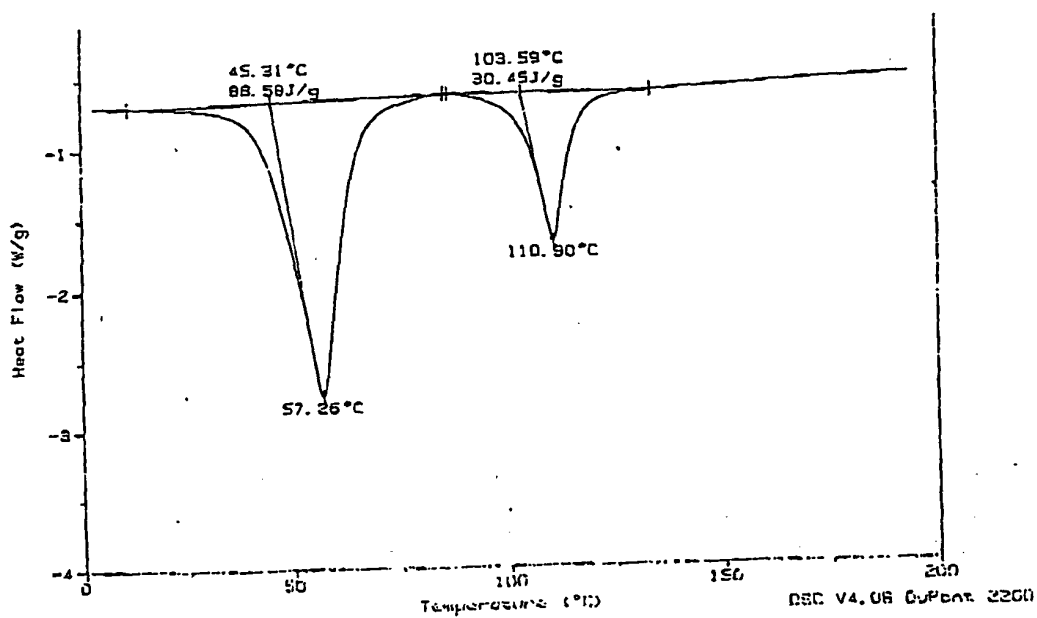


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

### 30/70 PBS/PEO Physical Blend



### 30/70 PBS/PEO Reactive Blend



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Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

